



APR 23 2007

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/21 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IFP

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

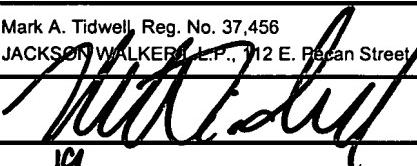
Total Number of Pages in This Submission

	Application Number	10/766,253	
	Filing Date	January 28, 2004	
	First Named Inventor	Clifford H. Ray, et al.	
	Art Unit	3663	
	Examiner Name	S. Hughes	
Total Number of Pages in This Submission	6	Attorney Docket Number	021120.0040.000

**ENCLOSURES (check all that apply)**

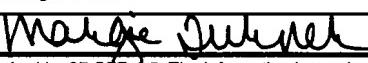
- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Reply<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): |
|   |  | <b>PTO FORM 1449, Postcard</b>  |
| Remarks   |  |   |

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Mark A. Tidwell, Reg. No. 37,456 JACKSON WALKER L.L.P., 112 E. Pecan Street, Suite 2400, San Antonio, Texas 78205
Signature	
Date	April 19, 2007

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Margie Turner
Signature	
Date	April 19, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Clifford H. Ray, et al.

Serial No. 10/766,253

Filed: January 28, 2004

For: METHOD AND APPARATUS  
FOR LAND BASED SEISMIC  
DATA ACQUISITION

§ Attorney Docket No. 021120.0040.000  
§  
§ Group Art Unit: 3663  
§  
§ Examiner: Not Assigned  
§  
§

CERTIFICATE OF FIRST CLASS MAILING

37 C.F.R. § 1.8(a)  
I hereby certify that this document and its attachments are being deposited with the United States Postal Service as First Class Mail to Addressee Service, in an envelope addressed, Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

April 19, 2007  
Date

Margie Jelonek  
Signature

INFORMATION DISCLOSURE STATEMENT

1. Pursuant to 37 C.F.R. §§1.97-1.99, Applicant hereby submits reference of which he or she is aware that may be material to the examination of this application, and of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56. The filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b), nor shall the filing of this Information Disclosure Statement be construed as a representation that a search has been made.
2. The references are listed on the accompanying Forms PTO-1449.
3. This Information Disclosure Statement:

- Accompanies a new patent application submitted herewith.
- Is being filed within 3 months after the filing date of the application.
- Before the mailing date of a first Office Action on the merits.
- After each of the above, but before the mailing date of either a final action or Notice of Allowance and is accompanied by a:
- Certification, or
- 1806 fee (37 C.F.R. § 1.17(p)).
- After all of the above, but before payment of the Issue Fee. The Statement is accompanied by a certification and a petition requesting consideration of the Statement and a petition fee of \$130 (37 C.F.R. § 1.17(i)(1)).

4. The U.S. Patent and Trademark Office is hereby authorized to charge any fees, if any, or discrepancies in fees required, to Deposit Account 10-0096.
5. Undersigned counsel hereby requests a telephone conference with the Examiner if there are any questions. It is respectfully requested that the references be considered by the Examiner, be made a part of the official record, and be cited in the issued patent.

Respectfully submitted,



Mark A. Tidwell  
Registration No. 37,456  
Jackson Walker L.L.P.  
112 E. Pecan Street, Suite 2400  
San Antonio, Texas 78205  
(713)752-4578  
(713)752-4221 - Facsimile

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Shee

1

8

APR 23 2007

APR 23 2007

Complete if Known	
Application Number	10/766,253
Filing Date	January 28, 2004
First Named Inventor	Clifford H. Ray, et al.
Group Art Unit	3663
Examiner Name	S. Hughes
Attorney Docket Number	021120.0040.000

## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-6,791,901	09-2004	Robertson, et al	
		US- 6,657,921	12-2003	Ambs, Loran D.	
		US- 6,607,050	08-2003	He et al.	
		US- 4,462,094	07-1984	Bowden et al.	
		US- 2004/0073373	04-2004	Wilson, Colin A.	
		US- 4,666,338	05-19-1987	Schoepf, Victor L.	
	US-				
		US- 6,584,406	06-2003	Harmon et al.	
		US- 6,532,190	03-11-2003	Bachrach	
		US- 5,231,252	07-27-1993	Sansone	
		US- 6,366,537	04-2002	Sambuelli et al.	
		US- 4,300,220	11-1981	Goff et al.	
		US- 4,813,029	03-1989	Erich et al.	
		US- 5,214,614	05-1993	Baule, Heinrich	
		US- 4,422,164	12-1983	Bowden et al.	
		US- 6,307,808	10-2001	Schmidt, Lesley J.	
		US- 4,849,947	7-18-1989	Baule, et al.	
		US- 2001/0035311	11-1-2001	He et al.	
		US- 4,462,094	07-24-1984	Bowden et al.	
		US- 5,253,223	10-23-1993	Svenning	

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/766,253
(use as many sheets as necessary)		Filing Date	January 28, 2004
		First Named Inventor	Clifford H. Ray, et al.
		Group Art Unit	3663
		Examiner Name	S. Hughes
Sheet	2	of	3
		Attorney Docket Number	021120.0040.000

## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-6,738,715	5-18-2004	Shatilo, et al.	
		US- 4,380,059	4-12-1983	Ruehle	
		US- 4,486,865	12-4-1984	Ruehle	
		US- 4,884,248	11-28-1989	Laster, et al.	
		US- 4,979,150	12-18-1990	Barr	
		US- 5,067,112	11-19-1991	Meek	
		US- 5,138,538	8-11-1992	Sperling	
		US- 5,191,526	3-2-1993	Laster, et al.	
		US- 5,365,492	11-15-1994	Dragoset, Jr.	
		US- 5,550,786	8-27-1996	Allen	
		US- 5,774,417	6-30-1998	Corrigan, et al.	
		US- 6,021,090	2-1-2000	Gaiser, et al.	
		US- 6,049,507	4-11-2000	Allen	
		US- 6,101,448	8-8-2000	Ikelle, et al.	
		US- 6,151,556	11-21-2000	Allen	
		US- 6,292,754	9-18-2001	Thomsen	
		US- 6,314,371	11-6-2001	Monk	
		US- 6,215,499	4-10-2001	Neff, et al.	
		US- 6,141,622	10-31-2000	Keller, et al.	
		US- 6,012,018	1-4-2000	Hornbuckle	

## **FOREIGN PATENT DOCUMENTS**

<b>Examiner Signature</b>		<b>Date Considered</b>	
-------------------------------	--	----------------------------	--

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/766,253
		Filing Date	January 28, 2004
		First Named Inventor	Clifford H. Ray, et al.
		Group Art Unit	3663
		Examiner Name	S. Hughes
(use as many sheets as necessary)		Attorney Docket Number	021120.0040.000
Sheet	3	of	3

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

<b>Examiner Signature</b>		<b>Date Considered</b>	
-------------------------------	--	----------------------------	--

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.